



Connective and Soft Tissue Neoplasm

A benign, intermediate, or malignant neoplasm that affects the connective and soft tissue

NCIT:C3810



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Introduction

- Different types (angiosarcoma, malignant peripheral nerve sheath tumor (MPNST), ...)

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<https://www.mayoclinic.org/diseases-conditions/angiosarcoma/symptoms-causes/syc-20350244>



<https://www.mdpi.com/2072-6694/15/4/1077>



Introduction

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- 40% of sarcomas in patients aged 60+

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Introduction

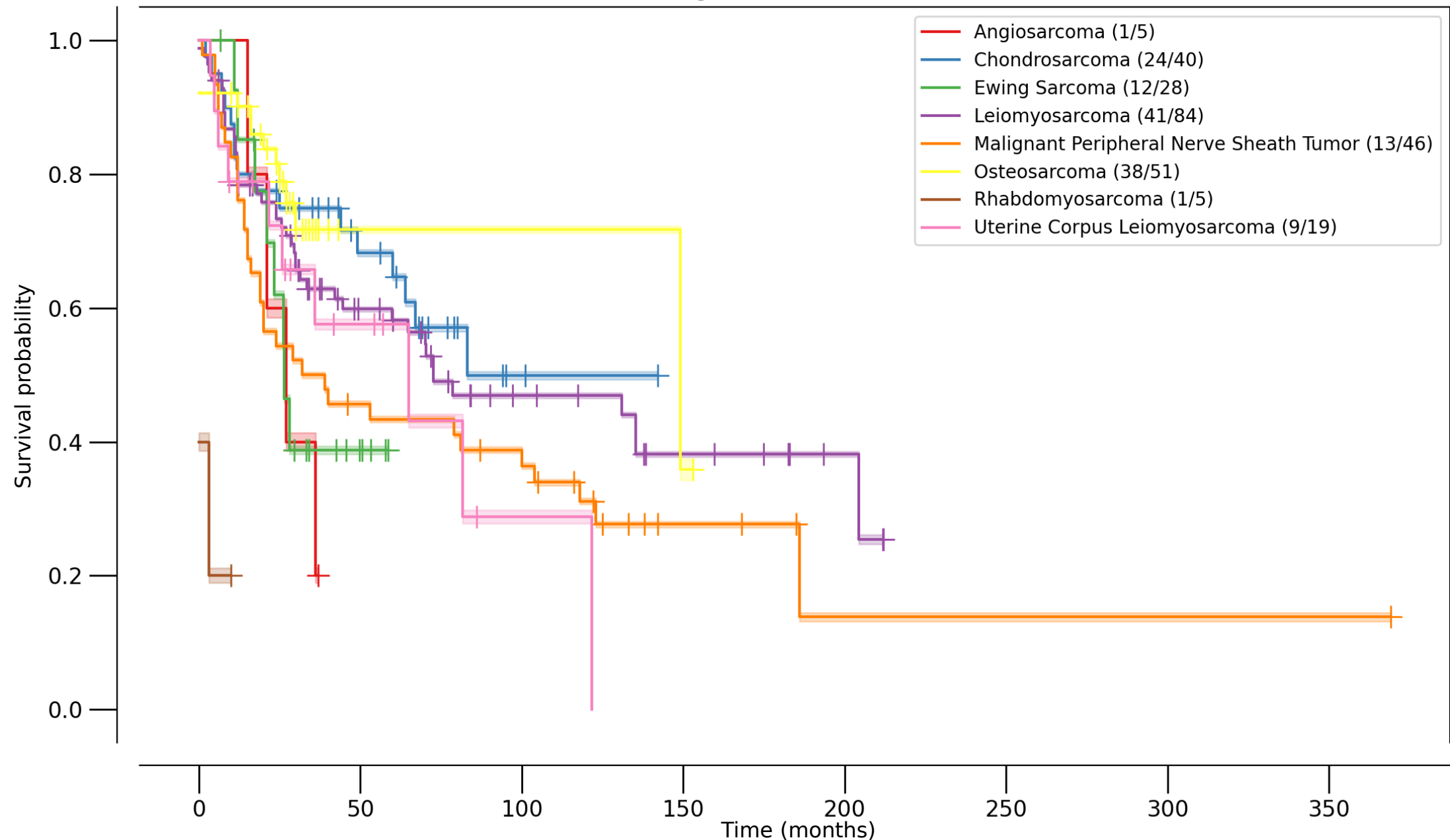
- Different types (angiosarcoma, malignant peripheral nerve sheath tumor (MPNST), ...)
- 40% of sarcomas in patients aged 60+
- Causes are still investigated by researchers
- Risk factors
 - Inherited: Li Fraumeni syndrome, Neurofibromatosis Type 1
 - Other: Radiation therapy, Lymphedema

Aim

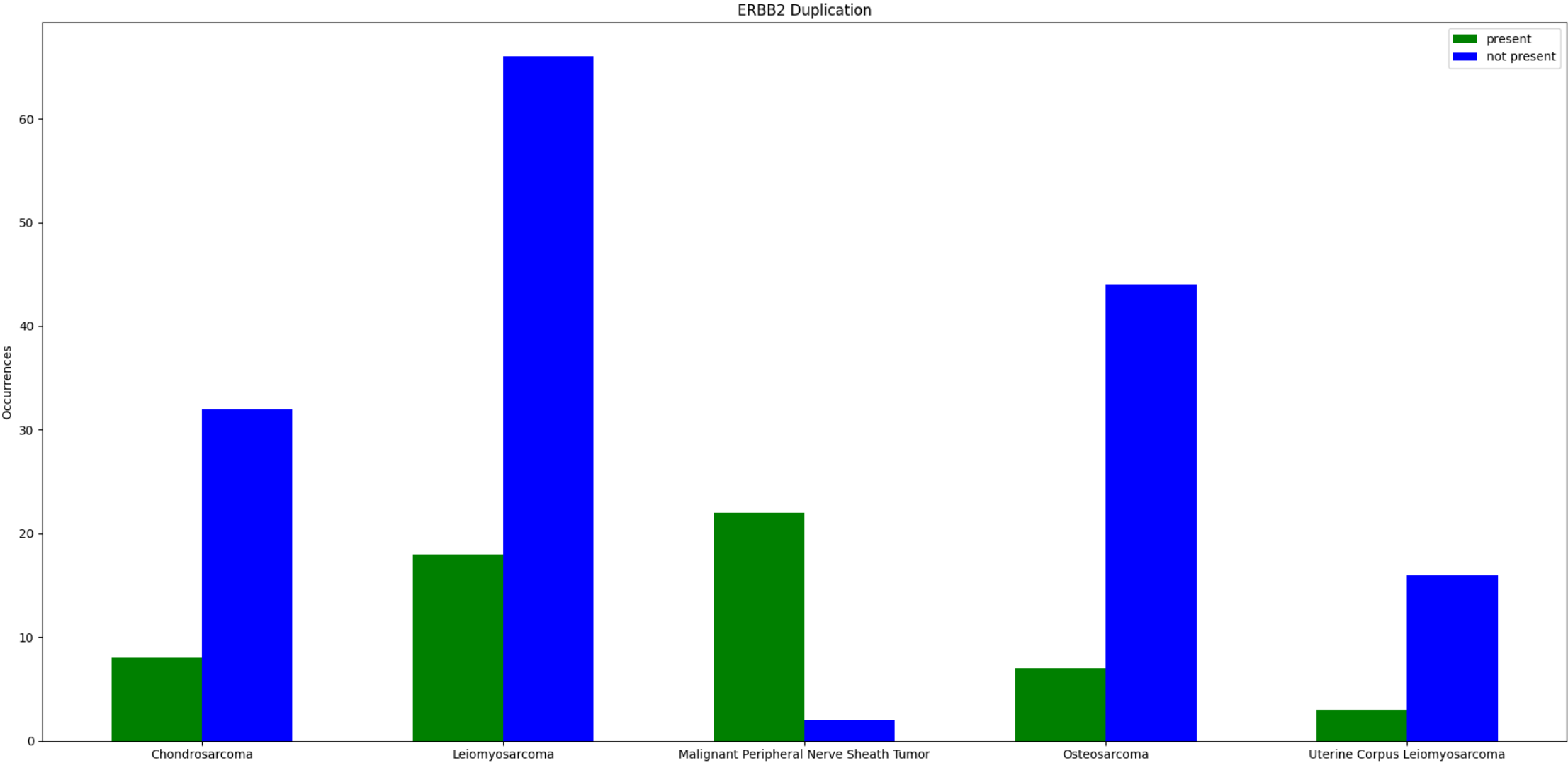
- Identifying and analyzing...
 - the survival probabilities of the different subtypes of connective and soft tissue neoplasms
 - the underlying genetic and non-genetic factors of the neoplasms
 - the distribution of connective and soft tissue neoplasms recordings in progenetix across different countries

Plots

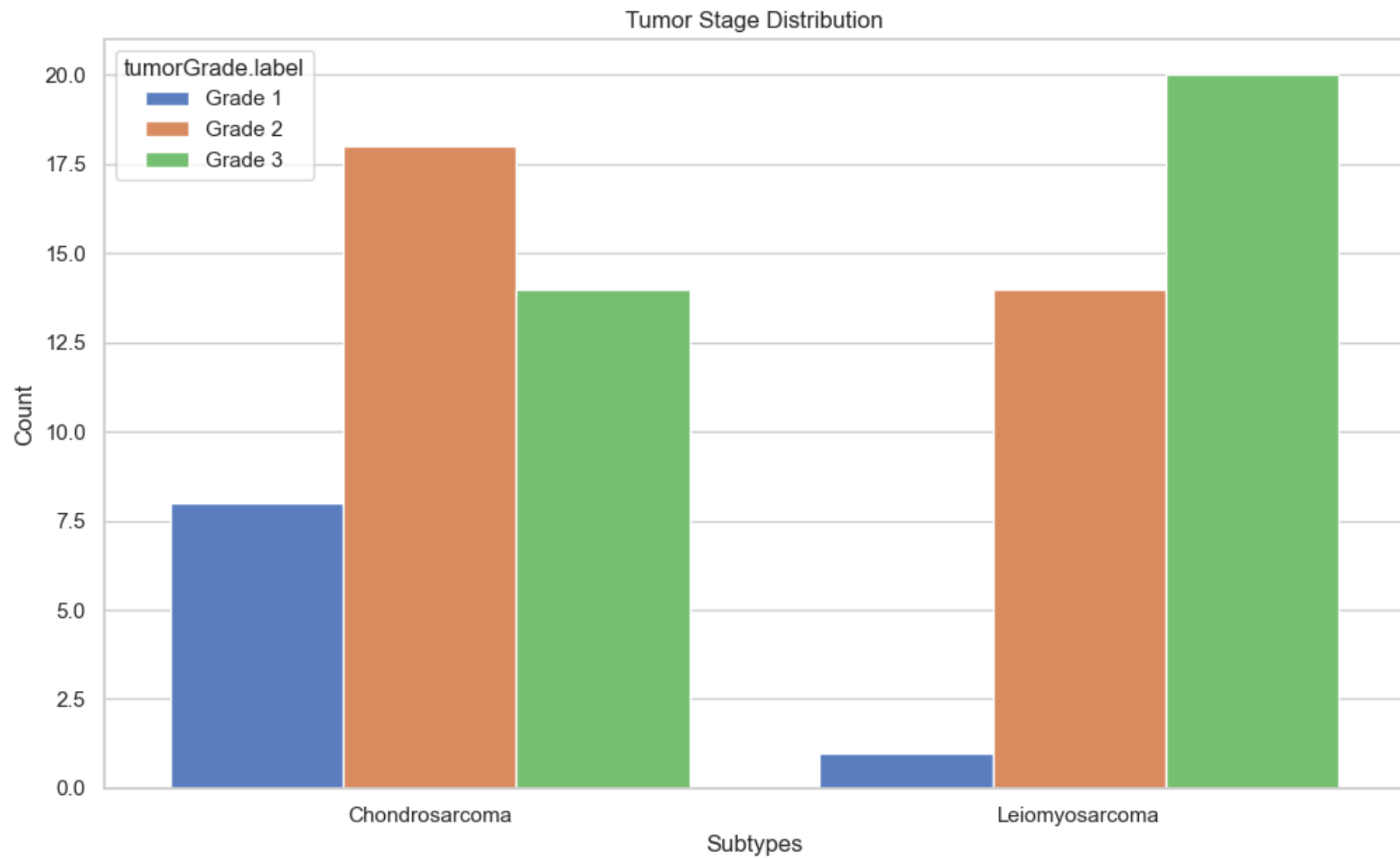
Survival function
Logrank P-Value = nan



Plots

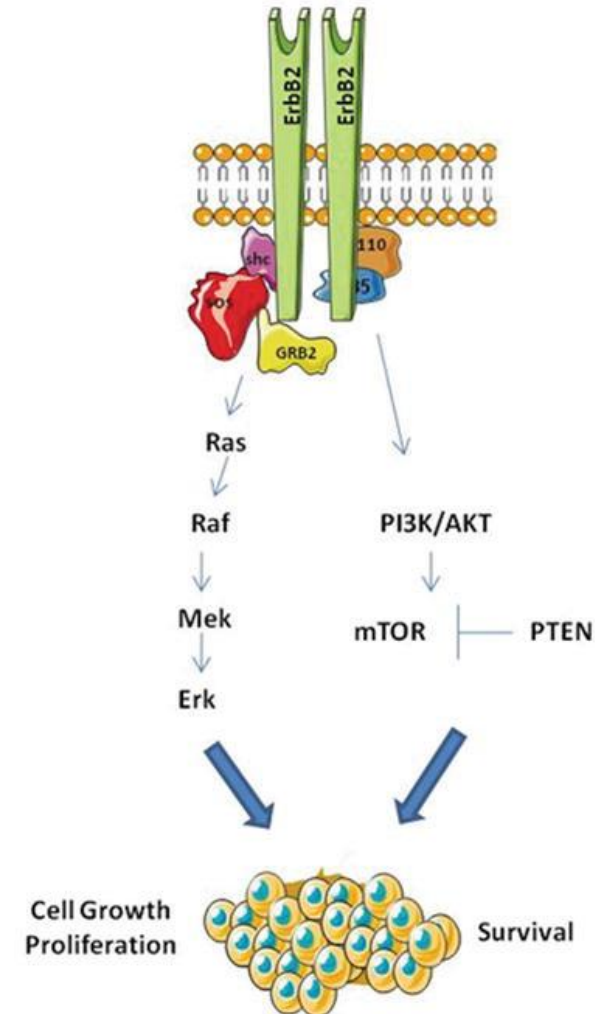


Plots



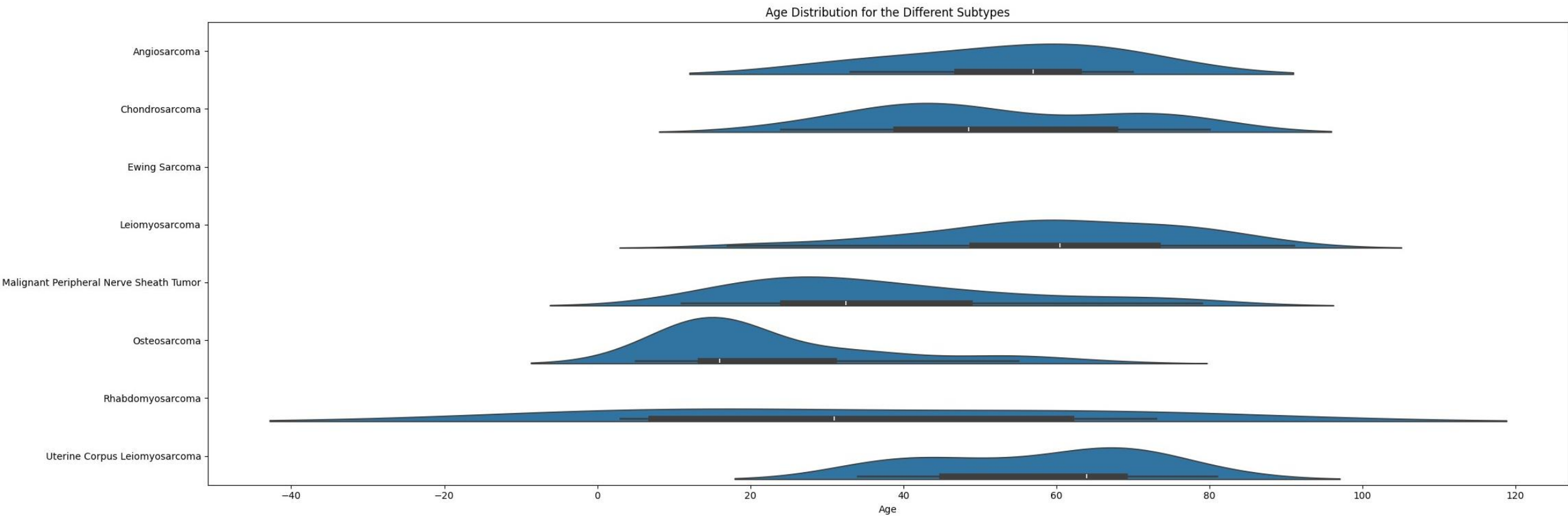
ERBB2 – erb-b2 receptor tyrosine kinase 2

- oncogene
- encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases
- enhances kinase-mediated activation of downstream signaling pathways
- has been reported in numerous cancers

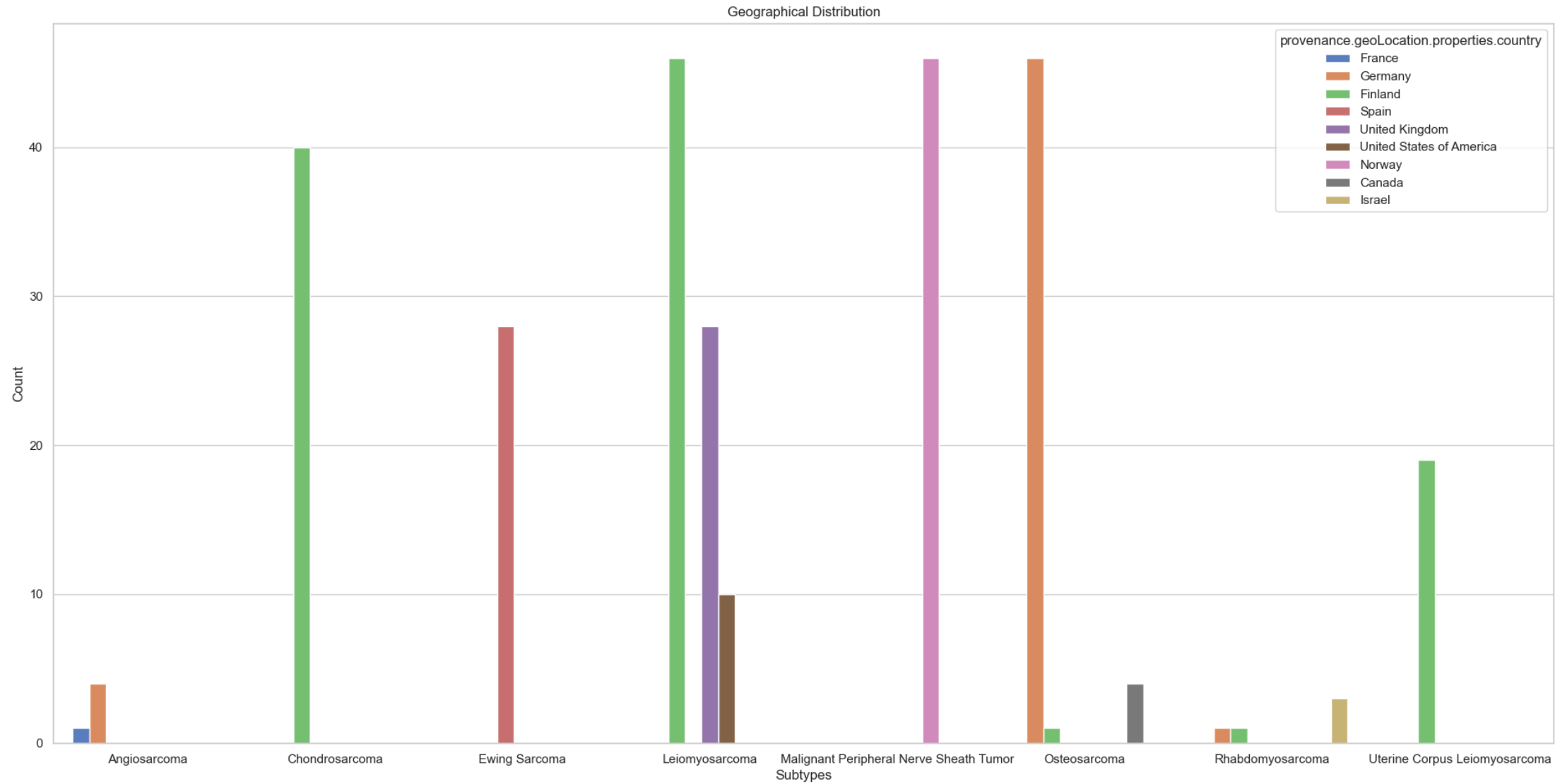


<https://www.intechopen.com/chapters/53690>

Plots



Plots



Conclusion

- Best prognosis: Osteosarcoma, Chondrosarcoma
- Worst prognosis: Uterine Corpus Leiomyosarcoma
- ERBB2 as main gene mutated in connective and soft tissue sarcomas
- Affects all age groups

List of References

- [\(https://www.mayoclinic.org/diseases-conditions/sarcoma/symptoms-causes/syc-20351048#:~:text=Sarcoma%20is%20a%20type%20of,tissues%20\(soft%20tissue%20sarcoma\)](https://www.mayoclinic.org/diseases-conditions/sarcoma/symptoms-causes/syc-20351048#:~:text=Sarcoma%20is%20a%20type%20of,tissues%20(soft%20tissue%20sarcoma)) (last: 23-10-5)
- <https://www.cancercenter.com/cancer-types/soft-tissue-sarcoma/types#:~:text=There%20are%2050%20different%20types,and%20location%20of%20the%20tu> mor (last: 23-10-5)
- <https://www.cancer.gov/pediatric-adult-rare-tumor/rare-tumors/rare-soft-tissue-tumors/mpnst#:~:text=Malignant%20Peripheral%20Nerve%20Sheath%20Tumor%2C%20or%20MPNST%2C%20is%20a%20cancer,is%20a%20type%20of%20sarcoma> (last: 23-10-5)
- <https://www.ncbi.nlm.nih.gov/gene/2064> (last: 23-10-5)
- <https://www.intechopen.com/chapters/53690> (last: 23-10-5)



**University of
Zurich** ^{UZH}

Thank you